

Use of combinations of photoprotectors comprising as essential components aminosubstituted hydroxybenzophenones as photostable UV-filters in cosmetic and pharmaceutical preparations

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Abstract of EP1133980

A photostable ultraviolet (UV) filter for protecting human skin or hair against sunlight contains as UV-A absorbing components a combination of a hydroxybenzophenone (I), optionally together with a 4,4-diaryl-butadiene (II); and other UV protectant(s) i.e. dibenzoylmethane, triazine, benzotriazole, benzimidazole, tetrahydroxybenzophenone and/or organosiloxane-benzal malonate derivatives. Use of a light-protectant combination of a UV-A absorber and further UV-A and/or UV-B absorbers is claimed as a photostable UV-filter in cosmetic or pharmaceutical preparations for protecting human skin or hair against sunlight, optionally used together with other conventional light protectants. First UV light absorber is a hydroxybenzophenone of formula (I), optionally together with a 4,4-diaryl-butadiene of formula (II); and other UV protectants including 4-(R6)-4'-(R7)-dibenzoylmethane, 1,3,5-triazine derivatives of formula (III), 2,4,6-triphenyl-1,3,5-triazines, in which the phenyl rings are bonded with at least one o-hydroxy group and at least one p-(1-20C) alkoxy group, 2,2'-dihydroxy-3,3'-bis-(1,2,3-benzotriazol-2-yl)-5,5'-bis-(1,1,3,3-tetramethylbutyl)-diphenylmethane, 1,4-bis-(5,6-disulfo-benzimidazol-2-yl)-benzene or its salts, 2-(2-hydroxy-3-(2-methyl-4,4-bis-(trimethylsilyloxy)-4-silapentyl)-5-methyl)-1,2,3-benzotriazole, 2,2',4,4'-tetrahydroxybenzophenone and/or siloxanes of formula (IV). R1, R2 = H, 1-20C alkyl, 3-10C cycloalkyl or 3-10C cycloalkenyl; or NR1R2 = 5-6 membered ring; R3 = 1-20C alkyl; R4, R5 = H, 1-20C alkyl, 3-10C cycloalkyl or 3-10C cycloalkenyl; R6 = 1-12C alkyl; R7 = H, 1-12C alkyl or 1-12C alkoxy; R8-R10 = optionally substituted 1-20C alkyl, 5-10C aryl, 5-10C heteroaryl or -Sp-Sil; Sp = spacer; Sil = silane, oligosilane or polysiloxane residue; X = O or NR11; R11 = H or optionally substituted 1-20C alkyl, 5-10C aryl, 5-10C heteroaryl; V = 3-(4-(2,2-bis-(ethoxycarbonyl)-vinyl)-phenoxy)-prop-1-en-1-yl or 3-(4-(2,2-bis-(ethoxycarbonyl)-vinyl)-phenoxy)-prop-1-en-2-yl; V' = V or Me; t = up to 100; u = up to 20; provided that u = 0 if V' = V or u = 1-20 if V' = Me. An independent claim is also included for cosmetic or pharmaceutical preparations for protecting human epidermis or hair against UV light in the 280-400 nm range, comprising the UV absorbing combination, a carrier and optionally other conventional light protectants.

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